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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/717,016	11/19/2003	Khosro Shamsaifar	WJT08-0052 6719 (JSF001-0001)		
7590 04/19/2006			EXAM	EXAMINER	
William J Tucker			TRAN, PABLO N		
14431 Goliad D	Drive				
Box #8			ART UNIT	PAPER NUMBER	
Malakoff, TX 75148			2618		
			DATE MAILED: 04/19/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summany	10/717,016	SHAMSAIFAR, KHOSRO				
Office Action Summary	Examiner	Art Unit				
	Pablo N. Tran	2618				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was pailure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONED	l. ely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-22</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.	_					
	8) Claim(s) 1-22 are subject to restriction and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	_					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		te atent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:	,				

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-6 and 16-21, drawn to a tunable amplifier having at least one matching circuit, a first amplifier, a second amplifier, an output matching circuit, and an embedded controller (fig. 1).
 - II. Claims 7-8 and 22, drawn to a tunable power amplifier with feedback loop comprising a power amplifier, a tuner with at least one tunable varactor, a directional coupler, and a controller (fig. 5).
 - III. Claim 9, drawn a tunable RF front end for a mobile handset comprising an antenna, a low pass filter, a low band duplexer, a high pass filter, and a high band duplexer (fig. 6).
- 2. The inventions are distinct, each from the other because:

Inventions I and II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, Group I discloses a tunable amplifier having matching circuit, first amplifier, second amplifier, output matching circuit, and embedded controller, wherein Group II has separate utility such as a tunable power amplifier with feedback loop comprising power amplifier, tuner with at least one tunable varactor, directional coupler, and a controller. See MPEP § 806.05(d).

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Inventions I and III are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, Group I discloses a tunable amplifier having matching circuit, first amplifier, second amplifier, output matching circuit, and embedded controller, wherein Group III has separate utility such as a tunable RF front end for a mobile handset comprising antenna, low pass filter, low band duplexer, high pass filter, and high band duplexer. See MPEP § 806.05(d).

Inventions II and III are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, Group II has separate utility such as a tunable power amplifier with feedback loop comprising power amplifier, tuner with at least one tunable varactor, directional coupler, and a controller, wherein Group III has separate utility such as a tunable RF front end for a mobile handset comprising antenna, low pass filter, low band duplexer, high pass filter, and high band duplexer. See MPEP § 806.05(d).

- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their recognized divergent subject matter and different searches are required for each group.
- 4. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pablo Tran whose telephone number is (571)272-7898. The examiner normal hours are 9:30 -5:00 (Monday-Friday). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (571)272-7899. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.
- 7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-directauspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PABLO N. TRAN
PRIMARY EXAMINER

April 8, 2006

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